



61SO-4000
* From inside wall of tank to bottom of upper tube

Typical Application Assembly

Installation schematic typical; exact dimensions will vary with tank configuration.

OPW 61SO Overfill Prevention Valves are covered under the following patent: #4,986,320. Re: #33,555 and Canadian patent #1,287,546. Other patents pending.

Replacement Parts

Part #	Description
61SOK-0001	Float Kit
C03899M	Two-Point Inlet Tube
C03632M	Coaxial Inlet Tube
D01756	Inlet Tube/Adaptor Assy. for 61SOP
H11931M	Drop Tube O-Ring
C03749	Trap Door Assy. (Remote)

61SOK Float Kit Instruction Sheet
Order Number: H11403PA

Ordering Specifications

Product/ Suffix #	Description	A-Upper Tube Length		B-Lower Tube Length		C-Overall Length		Max. Riser Length		Max. Nominal Tank Dia.		Max. Actual Tank Dia.		Weight	
		in.	m	in.	m	in.	m	in.	m	in.	m	in.	m	lbs.	kg
61SO-4000	4" two-point	60	1.5	83	2.1	154 $\frac{3}{4}$	3.9	53 $\frac{1}{2}$	1.4	96	2.4	107	2.7	16	7
61SO-4010	4" two-point	120	3.1	102	2.6	233 $\frac{3}{4}$	5.9	113 $\frac{1}{2}$	2.9	120	3.1	126	3.2	25	11
61SOM-4121*‡	Two-point, ethanol/ methanol	120	3.1	not included		233 $\frac{3}{4}$	5.9	113 $\frac{1}{2}$	2.9	120	3.1	126	3.2	25	11
61SOM-412C-EVR*‡	CARB 4", two-point, ethanol/methanol	120	3.1	not included		233 $\frac{3}{4}$	5.9	113 $\frac{1}{2}$	2.9	120	3.1	126	3.2	25	11
61SOC-4001	Coaxial	60	1.5	83	2.1	154 $\frac{3}{4}$	3.9	53 $\frac{1}{2}$	1.4	96	2.4	107	2.7	16	7
61SOC-4011	Coaxial	120	3.1	102	2.6	233 $\frac{3}{4}$	5.9	113 $\frac{1}{2}$	2.9	120	3.1	126	3.2	25	11
61SOP-4002	CARB, pop. coaxial	60	1.5	83	2.1	154 $\frac{3}{4}$	3.9	53 $\frac{1}{2}$	1.4	96	2.4	107	2.7	20	9
61SOP-4012	CARB, pop. coaxial	108	2.7	102	2.6	221 $\frac{1}{4}$	5.6	101 $\frac{1}{2}$	2.6	120	3.1	126	3.2	27	12
61SOCM-4000*‡	Coaxial, ethanol/methanol	60	3.1	not included		233 $\frac{3}{4}$	5.9	113 $\frac{1}{2}$	2.9	120	3.1	126	3.2	25	11
61SO-4BYT	Overfill valve only, no drop tubes supplied														
61SOR-4000**	Remote	72	1.8	83	2.1	166 $\frac{3}{4}$	4.2	65 $\frac{1}{2}$	1.7	96	2.4	107	2.7	19	9
61SORM-4000***‡	Remote, ethanol/methanol	72	1.8	not included		185 $\frac{3}{4}$	4.7	65 $\frac{1}{2}$	1.7	120	3.1	126	3.2	19	9
61JSK-4RMT	Jack Screw Kit for Remote application														

*For use with M85 & M100 methanol fuels **Remote fill applications ***Remote fill, methanol

‡ Methanol (M85) and Ethanol (E85) models do not include lower drop tube. Adaptor for 3" A.O. Smith Fiberglass Pipe (Drop Tube) is included. Appropriate length of 3" A.O. Smith Fiberglass Pipe is required for lower Drop Tube (not furnished).

Important

FlexWorks by OPW, Inc., VAPORSAVER™ and all other OPW products must be used in compliance with all applicable federal, state, provincial and local laws, rules and regulations. Product selection must be based on physical specifications and limitations, compatibility with the environment and material to be handled. All illustrations and specifications in this literature are based on the latest production information available at the time of publication. Prices, materials and specifications are subject to change at any time, and models may be discontinued at any time, in either case, without notice or obligation. OPW warrants solely to its customer that the following products sold by OPW will be free from defects in materials and workmanship under normal use and conditions for the periods indicated.

OPW 71SO Overfill Prevention Valves

The CARB-certified OPW 71SO vapor-tight Overfill Prevention Valve is designed to prevent the overfill of underground storage tanks by providing a positive shut-off of product delivery. The shut-off valve is an integral part of the drop tube used for gravity filling. The OPW 71SO allows easy installation (without breaking concrete) and requires no special manholes.

The OPW 71SO is a vapor-tight two-stage shut-off valve. When the liquid level rises to about 95% of tank capacity, the valve mechanism is released, closing automatically with the flow. This reduces the flow rate to approximately 5 gpm through a bypass valve. The operator may then stop the filling process and disconnect and drain the delivery hose. As long as the liquid exceeds the 95% level, the valve will close automatically each time delivery is attempted.

If the delivery is not stopped and the liquid rises to about 98% of tank capacity, the bypass valve closes completely. No additional liquid can flow into the tank until the level drops below a reset point.

71SO Instruction Sheet Order
Number: **H15524PA**



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ONE COMPANY. ONE WORLD. ONE SOURCE.™

Materials

- Valve body:** cast aluminum
- Float:** nitrile rubber, closed cell foam
- Valve:** aluminum
- Seals:** Viton®
- Upper & lower Drop Tube:** aluminum
- Plastic parts:** acetal
- Hardware:** stainless steel

Features

- ◆ **Simple, Easy and Quick Installation** – No excavation or special manholes required.
- ◆ **Economical** – Costs a fraction of expensive, complicated and difficult-to-install valves.
- ◆ **Furnished Complete** – Supplied with new upper and lower drop tubes, mounting hardware and thorough instructions for quick job site time.
- ◆ **Completely Automatic Operation** – No prechecks to perform, no resets, and no overrides to be broken or abused.
- ◆ **No Pressurization of the Tank** – Operates directly from liquid level.
- ◆ **Will Accept a Dipstick for Gauging.**
- ◆ **Retrofits Directly** – For both new and existing tanks with 3" or 4" fill risers.
- ◆ **Quick Drain Feature** – Automatically drains hose when head pressure is relieved.
- ◆ **Best Flow Rate in The Industry.***

* Test-witnessed by Bowser-Morner, Inc., an independent laboratory. Results available upon request.



Important

In order to prevent product spillage from the Underground Storage Tank (UST), properly maintained delivery equipment and a proper connection at the tight-fill adaptor are essential. Delivery personnel should be managed and trained to inspect delivery elbows and hoses for damaged and missing parts. They should always make certain there is a positive connection between the adaptor and elbow. If delivery equipment is not properly maintained, or the elbow is not securely coupled to the adaptor, a serious spill may result when the OPW 71SO closes, causing a hazard and environmental contamination.

NOTE: The OPW 71SO is designed for use on tight-fill gravity drop applications only. Do not use for pressure fill applications.

Advantages of Overfill Prevention Compared to Overfill Warning Systems:

- ◆ **Completely Automatic Operation** – Does not rely on the alertness or speed of response of the delivery attendant for certainty of overfill prevention.
- ◆ **Keeps the Top of UST "Dry," per EPA Requirements** – Eliminating possible leaks at loose bung fittings and the need for double containment on vent lines.
- ◆ **Does Not Rely on Pressure in the UST to Stop Flow** – Allowing faster fill times and reducing spill risk.
- ◆ **Speeds Delivery Operations** – Product flows unimpeded into the tank until the hose "kick" that accompanies the valve shut-off provides a clear signal that the liquid has reached the shut-off level.
- ◆ **Simple and Inexpensive Installation** – In both two-point and coaxial fill applications, no additional excavation, manholes or vent piping are required.

Listings and Certifications



Look for this label for authentic OPW EVR Approved products.